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(54) **ADAPTIVE TRANSMISSION POWER
 CONTROL METHOD USING STATE
 TRANSITION AND DEVICE THEREOF**

(57) Abstract:

PROBLEM TO BE SOLVED: To allow a device to follow up even a rapid fluctuation in a propagation loss.

SOLUTION: To receive a command, requesting reduction of transmission power is represented by '0' and to receive a command requesting increase of transmission power is represented by '1'. An initial state is a state '0'. Step sizes of a state '1' and a state '-1' are larger than the state '0'. When the state is unchanged, every time a command to increase or decrease the transmission power is received, the transmission power is increased or decreased, depending on the step size decided by the state. In the case of transiting the state, every time the command to

increase or decrease the transmission power is received, the transmission power is increased or decreased depending on the state of a transit destination. In the case of the state '0', only when a command of N consecutive sets to request increase or decrease of the transmission power is received, that is, only when N consecutive times of '0' or '1' are received, the state is transited from the state '0' to the state '1' or '-1'. In the state '1', when even one of a command to increase the transmission power is received, the state '1' is restored to the state '0'.

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